International Application No INTERNATIONAL SEARCH REPORT PCT/IB2005/050038 A. CLASSIFICATION OF SUBJECT MATTER G06F9/5G G06F9/48 According to International Patent Classification (IPC) or to both national classification and IPC B FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) G06F Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) , I NSPEC EPO-Internal C DOCUMENTS CONSIDERED TO BE RELEVANT Category ' Citation of document, with indication where appropriate, of the relevant passages Relevant to claim No X Patent family members are listed in annex Further documents are listed in the continuation of box C X Special categories of cited documents T later document published after the international filing date or priority date and not in conflict with the application but <sup>1</sup>A ' document defining the general state of the art which is not considered to be of particular relevance cited to understand the principle or theory underlying the invention 'E" earlier document but published on or after the international filing date X\* document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'L" document which may throw doubts on priority clam(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document is combined with one or more other such documents, such combination being obvious to a person skilled in the art 'O' document referring to an oral disclosure, use, exhibition or document published prior to the international filing date but later than the priority date claimed & document member of the same patent family Date of the actual completion of the international search Date of mailing of trie international search report 0 1 02 2006 16 November 2005 Authorized officer Name and mailing address of the ISA European Patent Office, P B 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel (+31-70) 340-2040, Tx 31 651 epo nt.

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C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		
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X	NARLIKAR G J ET AL: "SPACE-EFFICIENT IMPLEMENTATION OF NESTED PARALLELISM" ACM SIGPLAN NOTICES, ASSOCIATION FOR COMPUTING MACHINERY, NEW YORK, US, vol. 32, no. 7, 1 July 1997 (1997-07-01), pages 25-36, XP000701966 ISSN: 0362-1340 abstract First ful I paragraph of page 26, I eft-hand col umn Section 2 "Model of Paral I elism" and first paragraph of secti on 3 on page 27	1,25	
Y A	Paragraph bri dgi ng pages 27-28	2-4,7 » 10,13 » 18-24,26 4,5,8 ,9,	
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Y	DATABASE INSPEC [Online] THE INSTITUTION OF ELECTRICAL ENGINEERS, STEVENAGE, GB; 2001, STREIT A: "On job scheduling for HPC-Clusters and the dynP scheduler" XP002329479 Database accession no. 7307055 abstract Section 5 "The dynP Scheduler": page 62 - page 63 -& PROCEEDINGS OF INTERNATIONAL IEEE CONFERENCE ON HIGH PERFORMANCE COMPUTING - INDIA 17-20 DEC. 2001 HYDERABAD, INDIA, 20 December 2001 (2001-12-20), pages 58-67, XP002329478 High Performance Computing - HiPC 2001. 8th International Conference. Proceedings (Lecture Notes in Computer Science Vol. 2238) Springer-Verlag Berlin, Germany ISBN: 3-540-43009-1	4,7,10	
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Y	ENGELSCHALL R s: "pth GNU Portable Threads" PTH MANUAL, 17 February 2003 (2003-02-17), XP002315713 page 2, line 1 - line 12	1-3, 18-26					
	<pre>Item "preemptive vs. non-preemptive thread scheduling": page 3 Items "int pth_suspend() and "int pth_yield()": page 10</pre>						
Y	JIMAN HONG ET AL: "On the choice of checkpoint interval using memory usage profile and adaptive time series analysis" DEPENDABLE COMPUTING, 2001. PROCEEDINGS. 2001 PACIFIC RIM INTERNATIONAL SYMPOSIUM	1-3, 18-26					
	ON SEOUL, SOUTH KOREA 17-19 DEC. 2001, LOS ALAMITOS, CA, USA, IEEE COMPUT. SOC, US, 17 December 2001 (2001-12-17), pages 45-48, XP010585360 ISBN: 0-7695-1414-6 abstract First and last paragraphs of section 2 "Checkpoint based on memory usage						
P,X	profile":  page 45 - page 46; figure 1   WO 2004/090720 A (KONINKLIJKE PHILIPS ELECTRONICS N.V; BRIL, REINDER, J; LOWET,	1-13, 18-26					
	DIETWIG <sub>5</sub> ) 21 October 2004 (2004-10-21) the whole document						

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in rθspect of certain claims under Article 17(2)(a) for the following reasons
1 Claims Nos because they relate to subject matter not required to be searched by this Authority, namely
2 I I Claims Nos  because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically
Claims Nos because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6 4(a)
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international appl cation, as follows
see additional sheet
As ail required additional search tees were timely paid by the applicant, this international Search Report covers ail searchable claims
As all searchable claims could be searched without effort justifying an additional fee this Authority did not invite payment of any additional fee
3 I I As only some of the required additional search fees were timely paid by the applicant, this International Search Report '' covers only those claims for which fees were paid, specifically claims Nos
No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims, a is covered by claims Nos.  1-13, 18-26
Remark on Protest  The additional search fees were accompanied by the applicants protest  No protest accompanied the payment of additional search fees

### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-13, 18-26

Methods and computer program product for scheduling tasks on a multi-processor system (with shared memory) based on memory usage. Switch to scheduling scheme based on co-operative multitasking, where preemption points are specified in each task, typically at points in task with low memory usage.

2. claims: 14-17

Devices for evaluating whether multi-processor system (with shared memory) has enough memory to process the offered load and subsequent selection and suspension of memory intensive tasks in reaction to memory bottleneck situation.

Information on patent family members

International Application No PCT/IB2Q05/050038

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2004090720 A	21-10-2004	NONE	
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